

**WHAT IS CLAIMED IS:**

1           1. A telecommunications device, comprising:  
 2           a receiver adapted to receive signals at a plurality of frequency bands; and  
 3           a programmable filter adapted to bandpass filter said signals at individual  
 4 ones of said frequency bands.

1           2. A telecommunications device in accordance with claim 1, said receiver  
 2 being a frequency hopping receiver and said programmable filter receiving a  
 3 frequency select signal.

1           3. A telecommunications device, comprising:  
 2           a receiver adapted to select one of a plurality of frequency channels; and  
 3           a bandpass filter having a variable band corresponding to said one of said  
 4 plurality of frequency channels.

1           4. A telecommunications system, comprising:  
 2           a base station; and  
 3           a plurality of handsets;  
 4           wherein each of said base station and handsets has a radio-frequency  
 5 receiver adapted to receive signals at a plurality of frequency bands and a  
 6 programmable filter adapted to bandpass filter said signals at individual ones of said  
 7 frequency bands  
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1           5. A telecommunications system in accordance with claim 4, said receiver  
 2 being a frequency hopping receiver and said programmable filter receiving a  
 3 frequency select signal.

1           6. A telecommunications method, comprising:  
 2           receiving a channel of a plurality of channels; and  
 3           band-pass filtering said channel at an input to a radio-frequency receiver.

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1        7. A telecommunications method in accordance with claim 6, further  
 2 comprising hopping from one channel to another channel, detecting said hopping,  
 3 and band-pass filtering said another channel.

1        8. A telecommunications method, comprising:  
 2 providing a receiver adapted to select one of a plurality of frequency  
 3 channels; and  
 4 providing a bandpass filter having a variable band corresponding to said one  
 5 of said plurality of frequency channels.

1        9. A telecommunications method in accordance with claim 8, said providing a  
 2 receiver adapted to select one of a plurality of frequency channels comprising  
 3 providing a frequency hopping receiver.

1        10. A telecommunications method comprising:  
 2 a base station establishing a frequency hopping scheme;  
 3 said base station providing information indicative of said scheme to a band  
 4 pass filter; and  
 5 said band pass filter filtering channels at frequencies of said frequency  
 6 hopping scheme responsive to said information.

1        11. A telecommunications method in accordance with claim 10, further  
 2 comprising:  
 3 said base station providing information indicative of said scheme to at least  
 4 one portable unit.

1        12. A telecommunications method in accordance with claim 11, further  
 2 comprising:  
 3 said portable unit providing information indicative of said scheme to a band  
 4 pass filter.

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1 13. A telecommunications method in accordance with claim 12, further  
2 comprising:  
3 said band pass filter filtering channels at frequencies of said frequency  
4 hopping scheme responsive to said information.

1 14. A telecommunications system, comprising:  
2 a base station adapted to establish a frequency hopping scheme and provide  
3 information indicative of said scheme to a band pass filter;  
4 wherein said band pass filter is adapted to filter channels at frequencies of  
5 said frequency hopping scheme responsive to said information.

1 15. A telecommunications system in accordance with claim 14, said base  
2 station adapted to provide information indicative of said scheme to at least one  
3 portable unit.

1 16. A telecommunications system in accordance with claim 15, said portable  
2 unit adapted to provide information indicative of said scheme to a band pass filter.

1 17. A telecommunications system in accordance with claim 16, said band  
2 pass filter adapted to filter channels at frequencies of said frequency hopping  
3 scheme responsive to said information.